Mr. J. M. Aldrich, lately of Lawrence, Kansas and formerly entomologist to the experiment station at Brookings, S. Dakota, has been appointed entomologist to the experiment station at Moscow, Idaho.

Rübsaamen has published in the Berliner entomologische zeitschrift (v. 37) a systematic study of the Cecidomyidae of the Berlin museum, accompanied by 14 plates illustrating the structure of the wings, abdominal appendages, antennae, head, pupae and "breast bone". They are divided into 2 subfamilies and 23 genera, 4 of them new; 80 species are considered.

The first (double) number of the same journal for 1893 is given up to the first instalment of a description by Karsch of the insects of Adeli, West Africa, consisting of the Apterygota, Odonata, Orthoptera saltatoria, and butterflies.

Aldrich publishes in the first part of vol. 2 of the Kansas university quarterly a revision of the N. American species of the dipteran genera Dolichopus and Hygroceleuthus, 81 of the former (21 new) and 5 of the latter (1 new). An excellent plate is added, especially devoted to antennae.

Moore's Lepidoptera Indica (part 15) is still occupied with the Satyrinae; the early stages of only one species are figured, but the wet-season and dry season broods of eight species are distinguished.

PROCEEDINGS OF SOCIETIES.

CAMBRIDGE ENTOMOLOGICAL CLUB.

14 April, 1893.— The 178th meeting was held at 156 Brattle St., Mr. S. Henshaw in the chair. Mr. H. A. Morgan of Baton Rouge, La., was elected to active membership.

Mr. S. H. Scudder showed the fossil fly from Florissant which he had described under the name of Mycetophactus intermedius. Owing to a suggestion of M. Ch. Brongniart of Paris he had re-examined the specimen and found that he had been mistaken in referring it to the Mycetophilidae, since the antennae are brief and not very long as he had supposed and the relative stoutness of the legs showed that notwithstanding its apparently spurred tibiae and small size it belonged to the neighboring family Bibionidae and to the genus Penthetria, an existing genus already well-known in tertiary deposits.

Mr. A. G. Mayer remarked on the lepidopterous fauna of the Bahamas which he had just visited. All the species found by him, with the exception of a Utetheisa, are strong fliers, as the weak fliers are blown off shore by the trade winds. Anosia plexippus was seen as well as species of Pieridae, Heliconidae and Hesperidae. The fauna and flora seem derived largely from the United States, though in part from South America.

Mr. Scudder called attention to a recent paper by Hampson on stridulation in Lepidoptera and said he had heard a clicking sound from Polygonia faunus on Mt. Washington, N. H. Mr. Mayer said he had observed the same in P. interrogationis.

Mr. A. P. Morse exhibited specimens of the pupae and imagines of a moth found feeding on woolens; also the opened egg cocoon of a spider which in nature bore a considerable resemblance to an oak apple.

Dr. H. S. Pratt stated that he had recently been engaged in studying the embryology of the sheep tick. The head is developed in the embryo but is concealed in the larva by two imaginal disks, which are formed by invagination on the dorsal side at some distance from the anterior end; they remain latent during the larval state and in the pupa are developed into the head. The larva bears considerable resemblance to that of the fly.

The Butterflies of the Eastern United States and Canada

With special reference to New England. By SAMUEL H. SCUDDER.

Illustrated with 96 plates of Butterflies, Caterpillars, Chrysalids, etc. (of which 41 are colored) which include about 2,000 Figures besides Maps and Portraits. 1958 Pages of Text.

Vol. 1. Introduction; Nymphalidae.

Vol. 2. Remaining Families of Butterflies.

Vol. 3. Appendix, Plates and Index.

The set. 3 vols., royal Svo, half levant, \$75.00 net.

HOUGHTON, MIFFLIN & CO.,

4 Park St., Boston, Mass.

FUST PUBLISHED.

Scudder's Brief Guide to the Commoner Butterflies.

By Samuel H. Scudder, author of "Butterflies of the Eastern United States and Canada," etc. xi + 206 pp. 12mo. \$1.25.

An introduction, for the young student, to the names and something of the relationship and lives of our commoner butterflies. The author has selected for treatment the butterflies, less than one hundred in number, which would be almost surely met with by an industrious collector in a course of a year's or two year's work in our Northern States east of the Great Plains, and in Canada. While all the apparatus necessary to identify these butterflies, in their earlier as well as perfect stage, is supplied, it is far from the author's purpose to treat them as if they were so many mere postage-stamps to be classified and arranged in a cabinet. He has accordingly added to the descriptions of the different species, their most obvious stages, some of the curious facts concerning their periodicity and their habits of life. A short introduction to the study of butterflies in general is prefixed to the work, and is followed by a brief account of the principal literature of the subject.

Scudder's The Life of a Butterfly. A Chapter in Natural History for the General Reader.

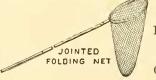
By Samuel H. Scudder. 186 pp. 16mo. \$1.00.

In this book the author has tried to present in untechnical language the story of the life of one of our most conspicuous American butterflies. At the same time, by introducing into the account of its anatomy, development, distribution, enemies, and seasonal changes some comparisons with the more or less dissimilar structure and life of other butterflies, and particularly of our native forms, he has endeavored to give, in some fashion and in brief space, a general account of the lives of the whole tribe. By using a single butterfly as a special text, one may discourse at pleasure of many; and in the limited field which our native butterflies cover, this method has a certain advantage from its simplicity and directness.

HENRY HOLT & CO., Publishers.

NEW YORK.

A. SMITH & SONS, 121 NASSAU STREET, New York.



GOODS FOR ENTOMOLOGISTS,

Klaeger and Carlsbad Insect Pins, Setting Boards, Folding Nets, Locality and Special Labels, Forceps, Sheet Cork, Etc. Other articles are being added, Send for List.